

Abstract

The invention relates to an apparatus for determination of the spatial alignment of a semitrailer (6) or trailer which is connected to a prime mover (5), having sensor means (7, 8) which are arranged on the prime mover (5) in order to produce sensor signals which describe the spatial alignment of the semitrailer (6) or trailer relative to the prime mover (5), with the sensor means (7, 8) detecting contours of the semitrailer (6) or trailer. The sensor signals which are produced by the sensor means (7, 8) include image information from a two-dimensional representation (16) and/or a linear scan (16') of the detected contours of the semitrailer (6) or trailer. An evaluation unit (15) uses the image information to determine at least one angle variable which describes an angle between the prime mover (5) and the semitrailer (6) or trailer.

Furthermore, when information is available about the spatial alignment of the prime mover (5), in particular information about the pitching and/or rolling movement of the prime mover (5), the pitching and/or rolling movement of the semitrailer (6) or trailer with respect to the roadway surface can also be determined.

Figure 1a